Intelligent Transportation Systems (ITS) is defined by FHWA to mean “electronics, communications, or information processing used singly or in combination to improve the efficiency or safety of a surface transportation system.”

ITS applications include:

- Electronic Toll Collection
- Traffic Signal Coordination
- Transit Signal Prioritization
- Traveler Information Systems
- Traffic Incident Management
- ...and many, many more.
• The SNHPC Adopted its Regional ITS Architecture in April 2016.

• The Regional ITS Architecture is a "framework for ensuring institutional agreement and technical integration for the implementation of ITS projects."

• Federal regulations require that ITS projects being implemented are consistent with the applicable Regional ITS Architecture.
• In the 2017 CMAQ Round, the SNHPC supported the City of Manchester’s Application to implement an adaptive signal control project on Granite Street.

  • Adaptive signal control allows signal timing to change based on actual traffic demand.

  • The project was funded and is now under development by the City of Manchester and its consultant.

  • In developing the Concept of Operations document for the project, an amendment to the regional ITS Architecture was recommended.
Proposed Manchester Traffic Signal Architecture

ATMS03: Traffic Signal Control
Manchester

Traffic Management Center
Manchester Traffic Division

MTC_Roadside Equipment

- signal control commands
- Signal control devices configuration
- Traffic detector control
- signal control status
- Signal default data
- Traffic detector data

ITS Roadway Equipment

- driver information
- pedestrian call
- crossing permission
- Traffic characteristics

Driver
Pedestrian
Traffic

Figure 1. Proposed Update for Traffic Signal Control (ATMS03 - Manchester)
Draft ITS Architecture Amendment #1 was released for public comment on January 20, 2020, and the 30-day comment period runs through February 20, 2019.

- Two comments have been received, both in support of the proposed Amendment.

- Amendment #1 is posted on the front page of the SNHPC website under “News and Notices.”

- The SNHPC MPO will hold a public hearing to consider adoption of ITS Architecture Amendment #1 on February 25, 2020.
Questions?